

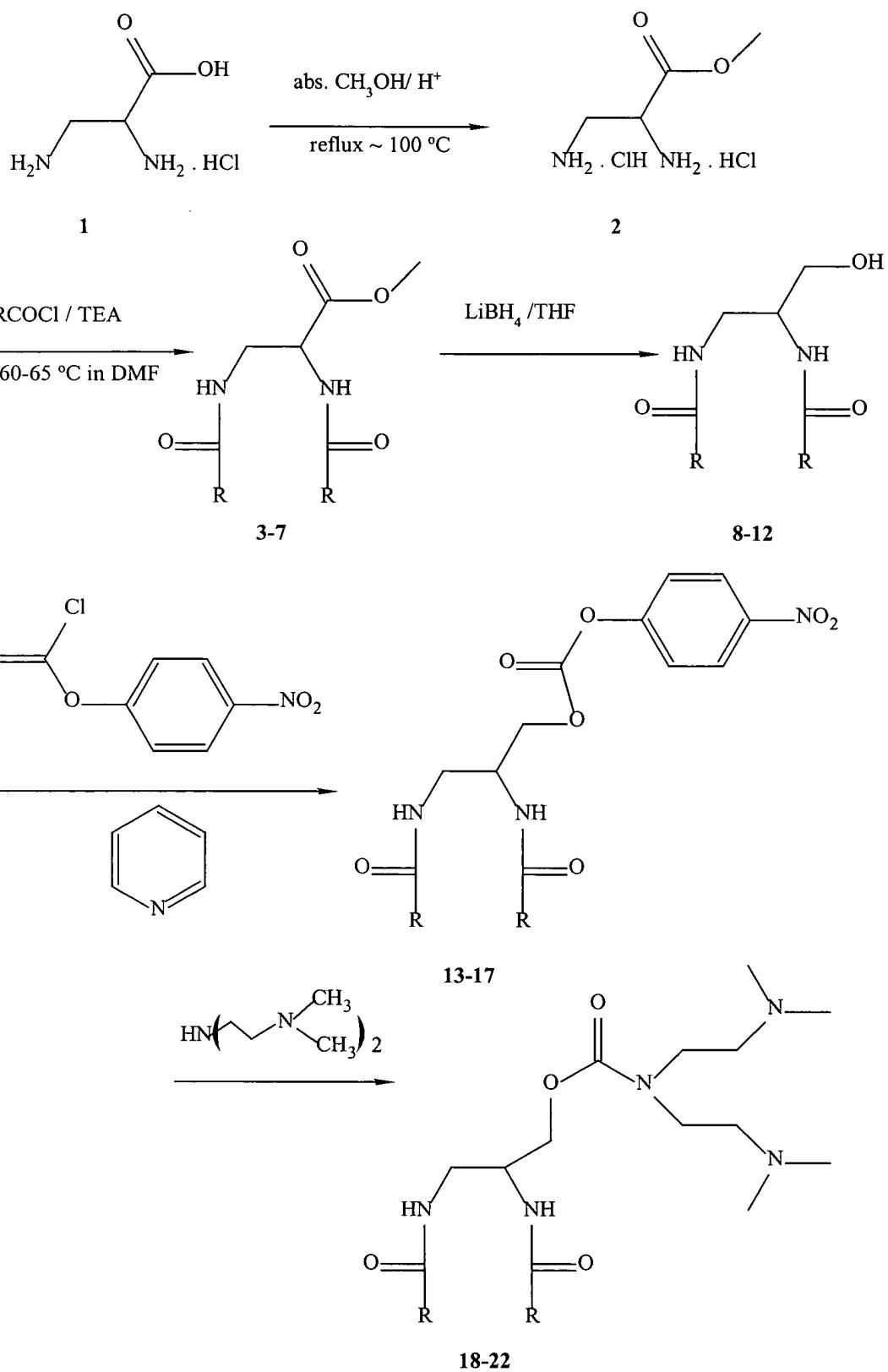
connector  : -CH₂-, -CO-, -OCO-, CH₂CH₂, -CH₂CO-, CH₂OCO-, -CH₂CH₂CO-, -CH₂CH₂OCO-

The **connector** shows how the two parts of structure S can be chemically linked together.

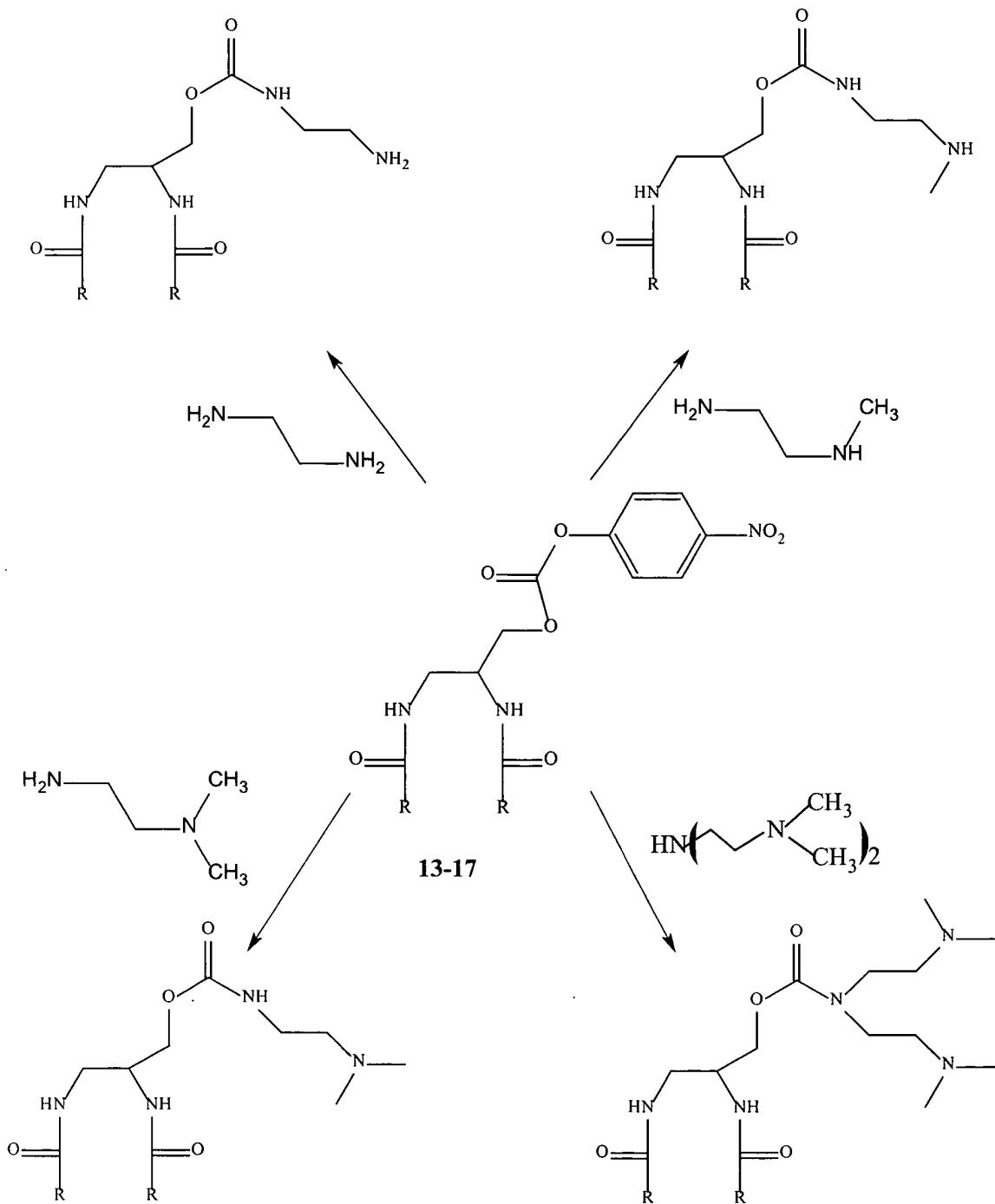
2. The delivery system of claim 1 and any other ingredient that is added to the system of claim 1 for biological activity or any other technological reason.

Abstract

The invention describes the synthetic methods for a series of pH-sensitive cationic lipids with diamido linkages between the 1,2-diamino-3-propanol backbone and the hydrocarbon chains. Their *in vitro* biological activity of the resulting lipid-DNA complexes is also described.



page 1 of SCHEME I



page 2 of SCHEME I